

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/518,599
Source: PCP/10
Date Processed by STIC: 1/10/05

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 01/10/2005
 PATENT APPLICATION: US/10/518,599 TIME: 15:28:24

Input Set : D:\Sonn064US.txt
 Output Set: N:\CRF4\01102005\J518599.raw

3 <110> APPLICANT: PENNINGER, JOSEPH M.
 4 CRACKOWER, MICHAEL A.
 6 <120> TITLE OF INVENTION: ACE2 ACTIVATION FOR TREATMENT OF HEART, LUNG AND
 7 KIDNEY DISEASE AND HYPERTENSION
 9 <130> FILE REFERENCE: SONN:064US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/518,599
 12 <141> CURRENT FILING DATE: 2004-12-17
 14 <150> PRIOR APPLICATION NUMBER: PCT/CA03/00882
 15 <151> PRIOR FILING DATE: 2003-06-19
 17 <150> PRIOR APPLICATION NUMBER: US 60/389,709
 18 <151> PRIOR FILING DATE: 2002-06-19
 20 <160> NUMBER OF SEQ ID NOS: 24
 22 <170> SOFTWARE: PatentIn version 3.1
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 26 <211> LENGTH: 3405
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
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 33 gtccttcctc agcctgttg ctgttaactgc tgctcagtcc accattgagg aacaggccaa 180
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 36 ggacaaaatgg tctgcctttt taaaggaaca gtccacactt gcccaaatgt atccactaca 360
 37 agaaaatttcag aatctcacag tcaagcttca gctgcaggct cttcagcaaa atgggttttc 420
 38 agtgctctca gaagacaaga gcaaacgggtt gaacacaatt ctaaatacaa tgacccat 480
 39 ctacagtaact ggaaaagttt gtaacccaga taatccacaa gaatgtttt tacttgaacc 540
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 41 aagctggaga tctgaggtcg gcaaggcagttt gaggccattat tatgaagagt atgtggtctt 660
 42 gaaaaatggat atggcaagag caaatcatta tgaggactat ggggattatt ggagaggaga 720
 43 ctatgaagta aatggggtag atggctatga ctacagccgc ggccagttga ttgaagatgt 780
 44 ggaacatacc tttgaagaga ttaaaccatt atatgaacat cttcatgcct atgtgaggc 840
 45 aaagttgatg aatgcctatc cttccatatac cagtcattt ggtatgcctcc ctgctcat 900
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 55 tggggact ctgcccattta ottacatgtt agagaagtgg aggtggatgg tctttaaagg 1500

P6

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58	ttctaatgtat	tactcattca	ttcgatatta	cacaaggacc	ctttaccaat	tccagttca	1680
59	agaagactt	tgtcaagcg	ctaaacatga	aggccctctg	cacaaatgtg	acatctcaaa	1740
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62	ctacttttag	cccttattta	cctggctgaa	agaccagaac	aagaattctt	ttgtggatg	1920
63	gagtaccgac	tggagtcat	atgcagacca	aagcatcaaa	gtgaggataa	gcctaaaatc	1980
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74	tatagaaaat	ataagatgat	aaagatatac	ttaaatgtca	aaactatgac	tctgttcaga	2640
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81	catgcttc	tcacagtaac	tcaagttcaag	tactatggt	atttgcctac	agtatgttt	3060
82	ggaatcgatc	atgcttctt	caaggtgaca	ggtctaaaga	gagaagaatc	caggaaacag	3120
83	gtagaggaca	ttgcttttc	acttccaagg	tgcttgatca	acatctccct	gacaacacaa	3180
84	aactagagcc	agggccctcc	gtgaactccc	agagcatgcc	tgatagaaac	tcatttctac	3240
85	tgttctctaa	ctgtggagtg	aatggaaatt	ccaaactgtat	gttcaccctc	tgaagtgggt	3300
86	accagtctc	ttaaatctt	tgtatttgt	cacagtgtt	gagcagtgt	gagcacaaag	3360
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89 <210> SEQ ID NO: 2

90 <211> LENGTH: 805

91 <212> TYPE: PRT

92 <213> ORGANISM: Homo sapiens

94 <400> SEQUENCE: 2

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99 Asn His Glu Ala Glu Asp Leu Phe Tyr Gln Ser Ser Leu Ala Ser Trp

100 35 40 45

101 Asn Tyr Asn Thr Asn Ile Thr Glu Glu Asn Val Gln Asn Met Asn Asn

102 50 55 60

103 Ala Gly Asp Lys Trp Ser Ala Phe Leu Lys Glu Gln Ser Thr Leu Ala

104 65 70 75 80

105 Gln Met Tyr Pro Leu Gln Glu Ile Gln Asn Leu Thr Val Lys Leu Gln

106 85 90 95

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107 Leu Gln Ala Leu Gln Gln Asn Gly Ser Ser Val Leu Ser Glu Asp Lys
 108 100 105 110
 109 Ser Lys Arg Leu Asn Thr Ile Leu Asn Thr Met Ser Thr Ile Tyr Ser
 110 115 120 125
 111 Thr Gly Lys Val Cys Asn Pro Asp Asn Pro Gln Glu Cys Leu Leu Leu
 112 130 135 140
 113 Glu Pro Gly Leu Asn Glu Ile Met Ala Asn Ser Leu Asp Tyr Asn Glu
 114 145 150 155 160
 115 Arg Leu Trp Ala Trp Glu Ser Trp Arg Ser Glu Val Gly Lys Gln Leu
 116 165 170 175
 117 Arg Pro Leu Tyr Glu Glu Tyr Val Val Leu Lys Asn Glu Met Ala Arg
 118 180 185 190
 119 Ala Asn His Tyr Glu Asp Tyr Gly Asp Tyr Trp Arg Gly Asp Tyr Glu
 120 195 200 205
 121 Val Asn Gly Val Asp Gly Tyr Asp Tyr Ser Arg Gly Gln Leu Ile Glu
 122 210 215 220
 123 Asp Val Glu His Thr Phe Glu Glu Ile Lys Pro Leu Tyr Glu His Leu
 124 225 230 235 240
 125 His Ala Tyr Val Arg Ala Lys Leu Met Asn Ala Tyr Pro Ser Tyr Ile
 126 245 250 255
 127 Ser Pro Ile Gly Cys Leu Pro Ala His Leu Leu Gly Asp Met Trp Gly
 128 260 265 270
 129 Arg Phe Trp Thr Asn Leu Tyr Ser Leu Thr Val Pro Phe Gly Gln Lys
 130 275 280 285
 131 Pro Asn Ile Asp Val Thr Asp Ala Met Val Asp Gln Ala Trp Asp Ala
 132 290 295 300
 133 Gln Arg Ile Phe Lys Glu Ala Glu Lys Phe Phe Val Ser Val Gly Leu
 134 305 310 315 320
 135 Pro Asn Met Thr Gln Gly Phe Trp Glu Asn Ser Met Leu Thr Asp Pro
 136 325 330 335
 137 Gly Asn Val Gln Lys Ala Val Cys His Pro Thr Ala Trp Asp Leu Gly
 138 340 345 350
 139 Lys Gly Asp Phe Arg Ile Leu Met Cys Thr Lys Val Thr Met Asp Asp
 140 355 360 365
 141 Phe Leu Thr Ala His His Glu Met Gly His Ile Gln Tyr Asp Met Ala
 142 370 375 380
 143 Tyr Ala Ala Gln Pro Phe Leu Leu Arg Asn Gly Ala Asn Glu Gly Phe
 144 385 390 395 400
 145 His Glu Ala Val Gly Glu Ile Met Ser Leu Ser Ala Ala Thr Pro Lys
 146 405 410 415
 147 His Leu Lys Ser Ile Gly Leu Leu Ser Pro Asp Phe Gln Glu Asp Asn
 148 420 425 430
 149 Glu Thr Glu Ile Asn Phe Leu Leu Lys Gln Ala Leu Thr Ile Val Gly
 150 435 440 445
 151 Thr Leu Pro Phe Thr Tyr Met Leu Glu Lys Trp Arg Trp Met Val Phe
 152 450 455 460
 153 Lys Gly Glu Ile Pro Lys Asp Gln Trp Met Lys Lys Trp Trp Glu Met
 154 465 470 475 480
 155 Lys Arg Glu Ile Val Gly Val Val Glu Pro Val Pro His Asp Glu Thr

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159	Ile Arg Tyr Tyr Thr Arg Thr Leu Tyr Gln Phe Gln Phe Gln Glu Ala			
160	515	520	525	
161	Leu Cys Gln Ala Ala Lys His Glu Gly Pro Leu His Lys Cys Asp Ile			
162	530	535	540	
163	Ser Asn Ser Thr Glu Ala Gly Gln Lys Leu Phe Asn Met Leu Arg Leu			
164	545	550	555	560
165	Gly Lys Ser Glu Pro Trp Thr Leu Ala Leu Glu Asn Val Val Gly Ala			
166	565	570	575	
167	Lys Asn Met Asn Val Arg Pro Leu Leu Asn Tyr Phe Glu Pro Leu Phe			
168	580	585	590	
169	Thr Trp Leu Lys Asp Gln Asn Lys Asn Ser Phe Val Gly Trp Ser Thr			
170	595	600	605	
171	Asp Trp Ser Pro Tyr Ala Asp Gln Ser Ile Lys Val Arg Ile Ser Leu			
172	610	615	620	
173	Lys Ser Ala Leu Gly Asp Lys Ala Tyr Glu Trp Asn Asp Asn Glu Met			
174	625	630	635	640
175	Tyr Leu Phe Arg Ser Ser Val Ala Tyr Ala Met Arg Gln Tyr Phe Leu			
176	645	650	655	
177	Lys Val Lys Asn Gln Met Ile Leu Phe Gly Glu Asp Val Arg Val			
178	660	665	670	
179	Ala Asn Leu Lys Pro Arg Ile Ser Phe Asn Phe Phe Val Thr Ala Pro			
180	675	680	685	
181	Lys Asn Val Ser Asp Ile Ile Pro Arg Thr Glu Val Glu Lys Ala Ile			
182	690	695	700	
183	Arg Met Ser Arg Ser Arg Ile Asn Asp Ala Phe Arg Leu Asn Asp Asn			
184	705	710	715	720
185	Ser Leu Glu Phe Leu Gly Ile Gln Pro Thr Leu Gly Pro Pro Asn Gln			
186	725	730	735	
187	Pro Pro Val Ser Ile Trp Leu Ile Val Phe Gly Val Val Met Gly Val			
188	740	745	750	
189	Ile Val Val Gly Ile Val Ile Leu Ile Phe Thr Gly Ile Arg Asp Arg			
190	755	760	765	
191	Lys Lys Lys Asn Lys Ala Arg Ser Gly Glu Asn Pro Tyr Ala Ser Ile			
192	770	775	780	
193	Asp Ile Ser Lys Gly Glu Asn Asn Pro Gly Phe Gln Asn Thr Asp Asp			
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210	aagttcactt	gcttcttgg	attataatac	taacattact	gaagaaaatg	ccaaaaagat	360
211	gagtgaggt	gcagccaaat	ggtctgcctt	ttatgaagaa	cagtctaaga	ctgccccaaag	420
212	tttctcacta	caagaaaatcc	agactccgat	catcaagcg	caactacagg	cccttcagca	480
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217	gtatgtggtc	ctgaaaaacg	agatggcaag	agcaaacaat	tataacgact	atggggatta	780
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220	ctatgtgagg	aggaagttga	tggataccct	cccttcctac	atcagcccc	ctggatgcct	960
221	ccctgccccat	ttgcttgggt	atatgtgggg	tagatttgg	acaaatctgt	accctttgac	1020
222	tgttcccttt	gcacagaaac	caaacataga	tgttactgt	gcaatgatga	atcagggctg	1080
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 44
Seq#:8; N Pos. 51
Seq#:9; N Pos. 43
Seq#:10; N Pos. 55
Seq#:11; N Pos. 53
Seq#:12; N Pos. 54
Seq#:13; N Pos. 57
Seq#:14; N Pos. 65
Seq#:15; N Pos. 61
Seq#:16; N Pos. 37
Seq#:17; N Pos. 29
Seq#:18; N Pos. 41

VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:557 M:283 W: Missing Blank Line separator, <400> field identifier
L:567 M:283 W: Missing Blank Line separator, <400> field identifier
L:577 M:283 W: Missing Blank Line separator, <400> field identifier